

CORROSION RESISTANT MEMBER

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Abstract of JP10045461

PROBLEM TO BE SOLVED: To solve the problem of unstable characteristics of a compd. of groups IIa and IIIa elements of the Periodic Table having high corrosion resistance while a sintered compact of glass, quartz, stainless steel, alumina or AlN used so far has unsatisfactory corrosion resistance.
SOLUTION: A part of a member exposed to halogen-contg. corrosive gas such as fluorine- or chlorine-contg. gas or plasma of the gas is made of a ceramic sintered compact based on a compd. contg. at least one of groups IIa and IIIa elements of the Periodic Table, e.g. a multiple oxide, spinel, cordierite, YAG or a silicate and having $\leq 1 \mu\text{m}$ surface roughness Ra and $\leq 3\%$ porosity.

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